

(NY-4835)

Proof of the Uniqueness of the Solution for the
Law of Mass Action Equation, by Ya. Zel'dovich,
4 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XI, No 5,
1938, pp 685-687.

JPRS 7048

Sci - Phys

Dec 60

134,417

The Electrical Conductivity and Viscosity
of Fused Salts, by S. Karpachev, A. Stromberg,
9 pp. UNCLASSIFIED

RUSSIAN, per, Zhur Fiz Khim, Vol XI, No 6,
1938, pp 852-857.

20,537

CTS TT-63-20744
Sci Tr Center
RT-1798

Scientific-Chemistry Jan 55 CTS
K-H-2867 22

Zel'dovich, Ya. B. and Frank-Kamenetskii, D. A.
THEORY OF THE THERMAL PROPAGATION OF
FLAMES (Teoriya Teplovogo Rasprostraneniya
Plameni). [1961] 11p. (formulae omitted) 8 refs.
Order from OTS or SLA \$1.60 62-10348

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1938
[v. 12] no. 1 [p. 100-105]

DESCRIPTORS: *Flame propagation, *Combustion,
Reaction kinetics, Thermal conductivity, Chemical
reactions, Thermal expansion, Thermal diffusion,
Thermodynamics.

(Unannounced)

62-10348

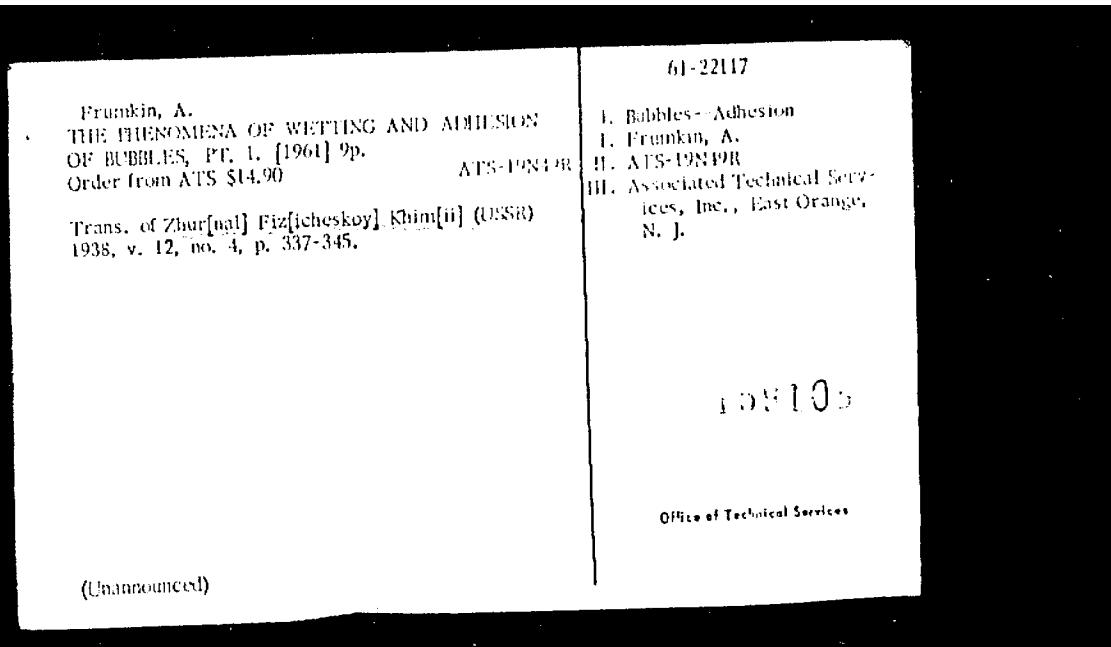
I. Zel'dovich, Ya. B.
II. Frank-Kamenetskii, D. A.

Office of Technical Services

Zhur Fiz Khim Vol 12, page 326-31 (1938)

Preparation of Hydrogen Peroxide by the Explosion Method. by N. V. Polyakov, E. V. Lifanov and D. S. Nosenko.

AEC Trans (avail. Brookhaven)



RUSSIAN, mo pey, Zhur Fiz Khim, Vol XII, 1938,
pp 521-540.

*ATIC

Bio Lab T-500-1

R-7938-D
2 Feb 67

The dynamics of sorption

By: Zhikhovitskiy

From: Zhurnal Fizicheskoy Khimii V. XII No 3, 1939
pp 303-310 (8 pp)

Russian - est for wds:

Please translate and type 1 camera ready copy.
Document can be cut. Make cover T-500-1.

Vapor Pressure of Solutions at High Pressure of
Solutions, by I. R. Krichevskiy, E. Khazanova,
16 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XIII, 1939, pp
106-~~116~~ 118.

SLA/R-2451

Sci
Apr 59

84, 878

Ternary System: Benzene - Toluene - Naphthalene,
by V. M. Kravchenko.
RUSSIAN, per, Zh Fiz Khim, Vol 13, No 1,
1939, pp 133-145.
ATS RJ-5015

Sci-Phys
Feb 69

373,822

Zh Fizicheskoy Khimii, Vol. XIII, No. 1, 1939, p. 146.

B. F. Pokhil, "New Method for Determining the Rate of Diffusion (Mobility) of Surface Active Molecules on a Solid-Gas Boundary Surface"

Proj 8528
A-2293.1
SI 11/11/51

On the Work of S. Pletenev and V. Rozov:
"Cathode Polarization in the Electrolysis of
Melts", by S. Karpachev, 3 pp. UNCLASSIFIED

RUSSIAN, per, Zhur Fiz Khim, Vol XIII, No 1,
1939, p 147.

20,535

Sci Tr Center
RT-2018

Scientific - Chemistry

Jan 55
Enough CTS

Reply to the Remarks of S. Karpachev,
by S. Pletenev, 2 pp. UNCLASSIFIED

RUSSIAN, per, Zhur Fiz Khim, Vol XX XIII,
No 1, 1939, pp 148c

20,549

Sci Tr Center
RT-2017

Scientific - Chemistry, Physics Jan 55 CTS

(NY-4830)

Investigation of a Flame of CO and O₂, by
Ye. Kondrat'yeva, V. Kondrat'yev, 11 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XIII, No 2,
1939, pp 169-173.

JPR8 7308

Sci - Chem

Jan 61

138,708

Viscosity in Three-Component Systems Formed in Martin Furnace Slag the System FeO-CaO-SiO₂, by P. P. Kozakevich, S. P. Leiba, E. P. Komar, 13 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XIII, 1939, pp 248-258.

SLA R-2867

Sci

Jul 59

92, 407

Activity of Urea in Aqueous Solutions,
by A. I. Krasilshchikov and S. S. Trainina,
6 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XIII, 1939
pp 281-285.

SL_e R-2184

Sci

Aug 58

72,147

A New Method for the Absorption of Aerosols and
Gases by Liquids, by Luchinskii, Gh. L.

RUSSIAN, per, Zhurnal Fizicheskoi Khimii, 1939, Vol 13,
p 302.

Sci Museum Lib No 52/0359

T. C. - 10/17

On Solutions of Metallic Cadmium in Molten Chlorides,
by S. Karpachov, A. Stromberg, 12 pp.

RUSSIAN, per, ZhurFis Khim, Vol XIII, 1939, pp
397-405. #

AEC 3382

Sci - Chem

Nov 58

76,437

Diffusion Processes in Binary Crystalline Systems, by B. L. Petrenko, et al.
RUSSIAN, per, Zhur. Fiz. Khim. Vol. 13,
no. 4, 1939, pp. 508-513.
*CFSTI TT 70-57028

Sci/phys
FEB 70

Polytherm of the Three-Component System $\text{KCl}-\text{K}_2\text{PO}_4-\text{H}_2\text{O}$ at the Temperatures from -10.8 to 35°, by V. A. Polosin, M. I. Shakhparonov, 11 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XIII, 1939, pp 541-546.

SLA R-3355

Sci

Aug 59

93, 603

Thermodynamic Relations between the Dissociation Pressure and the Solubility of Strong Complex Electrolytes, by I. G. Ryss, 5 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XIII, 1939,
pp 547-550.

SLA R-2627

Sci

Aug 58

72,757

TRI 62-185

Photochemical Decomposition of Ammonia Adsorbed on
Crystals of Copper Sulfate and Magnesium Oxide, by
V. Beloselvskiy.

RUSSIAN, per, Zhur Fiz Khim, Vol XIII, 1939,
pp 586-592. 909359 - 009143

*AEC Tr-5156

Sci-Phys, Chem
May 62

Study of Electrical Conductivity of Molten
Carnallite, by A. A. Shcherbakov, B. P. Markov,
25 pp.

RUSSIAN, no par, Zhur Fiz Khim, Vol XIII, No 5,
1939, pp 621-630.

OTS - T77-64-14374
Sci Tr Center
RT-2288

Scientific - Chemistry
CTS 70/Jul 55

25, 224

Temperature Distribution in an Explosion Vessel
and Stationary Theory of Thermal Explosions, by B. A.
Frank-Kamenetskii, 45 pp UNCLASSIFIED

RUSSIAN, por, Zhur Fiz Khimii, Vol XIII, No 6,
1939, pp 733-755.

AEC 3051
Sci Tr Cester
RT-1063

SUP TR R-7516
15,366

Scientific - Chemistry

Kinetics of Addition of Hypochlorous Acid at
the Double Bond. V. Formation of Ethylene
Dichloride From Ethylene and HOCl at Low Con-
centrations of Hydrochloric Acid, by E. A.
Shilov, et al. UNCL

RUSSIAN, por, Zhur Fiz Khim, Vol XIII, 1939,
pp 759-766.

DSIR LLU M.1061

(loan)

108 406

Sci - Chem

Feb 60

Kinetics of Decomposition of Carbamide in
Aqueous Solution, by A. I. Krasilshchikov,
6 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XIII, 1939,
pp 767-770.

SLA R-2178

Sci

Aug 58

72,187

Study of the Structure of the Fibre Surface by
a Method of Diffraction of Rapid Electrons,
by V. A. Kargin, D. I. Leipunskaya.
RUSSIAN, per, Zh. Fiz. Khim., Vol 13, No 6,
1939, pp ~~■~~ 850
NLL 5828.4F (11852)

Kinetics of Ammonia Synthesis With a Promoted Iron Catalyst, by M. Temkin and V. Pyzhev, 19 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XIII, No 7,
1939, pp 851-867.

Asso Tech Svc 84T15R

SLA F-2932

sci

ng 58

69, 798

Induction Period in the Crystallization of Super-saturated Solutions, by E. Posner, K. Asanov, K. Kostylev, 9 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XIII, 1939, pp 889-895.

SLA R-2840

Sci

Jul 59

92,425

Heterogeneous Catalysis of H₂O₂ by Manganese Compounds, by O. W. Altschuler, et al.

UNCL

RUSSIAN, per, Zhur Fiz Khim, Vol VIII, No 7,
1939, pp 907-9

RAE 194

Sci - Chem
Dec 59

102, 457

The Photochemical Decomposition of Ammonia Adsorbed
on Crystals of CuSO₄ and MgO, by V. Balosel'skiy,
12 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XIII, 1939, pp 586-9
9089559

AEC Tr-5186

Sci - Phys, Chem
Aug 62

207, 513

15 188

US-14

FRANK-KAMENETSKII D. A.

Temperature distribution in a reaction vessel and the equilibrium
theory of thermal explosions

Zhur. Fiz. Khim., 13, No. 6, 738-755 (1939)

RJ 2181. \$ 25.95 - English

E u r a t o m

Effect of Collision on the Behavior of Complex Excited Molecules, by B. S. Nepporent, 3⁴ pp. UNCLASSIFIED

RUSSIAN, no per, Zhur Fiz Khim, Vol XIII, No 7, Jul 1939, pp 965-982.

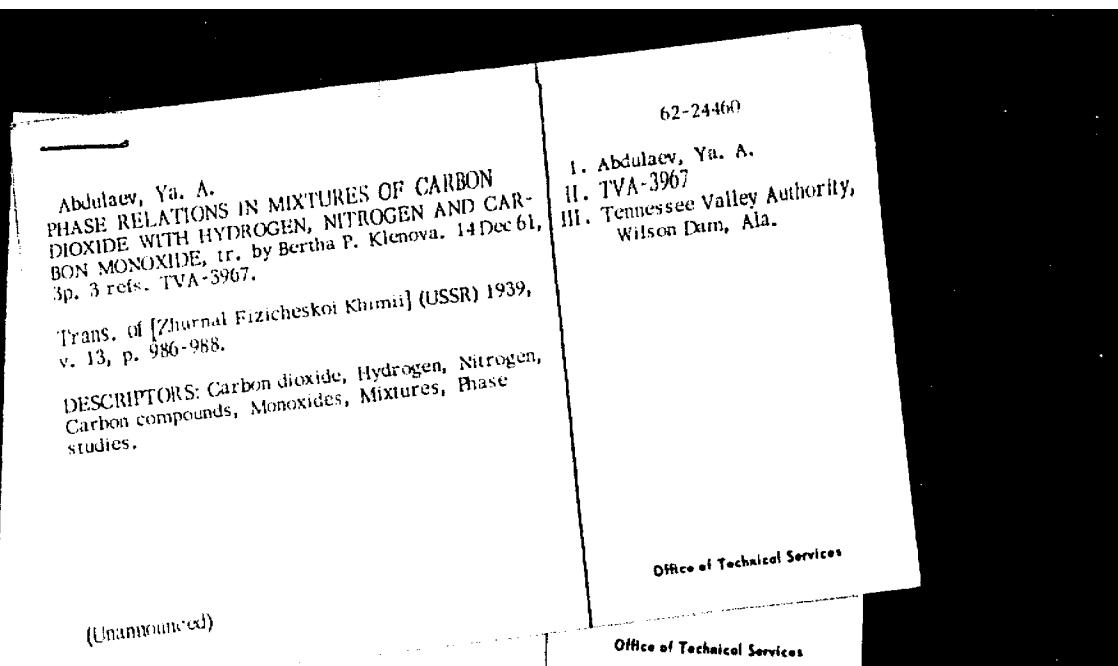
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Scientific - Physics
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ATIC 133839

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Feb 54 CTS



On the Overvoltage of Hydrogen in the Fused
Electrolyte, by S. Karparelev, S. Rempel, E. Yordan,
14 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XIII, No 8, 1939,
10.7.1991.

26,708

Sci Trans Center
RT-2403

Scientific - Chemistry

Sep 55 CTS/DEX

Overvoltage on Mercury in Presence of Surface-Active
Electrolytes, by Z. Iofa, B. Kabanov, E. Kuchinskiy,
F. Chistyakov, 19 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XIII, 1939, pp
~~XXXX~~ 1105-1116.

AEC Tr 1859

Scientific - Physics
CIS/DEX

14,386

Electroosmotic Investigation of the Surface Layers
in Glass, by V. S. Molchanov, 14 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XIII, No 8, 1939,
pp 1124-1130.

Sci Tr Center RT-1208

Scientific - Chemistry

Jul 54 CTS

16,050

Effect of the Addition of Hypochlorous Acid at the Double Bond. VI. 1, 2-Dichloroethane Formation at High Chloride Ion Concentrations, by J. A. Mallo, N. F. Lang, Jr., J. H. D.

J. Am. Chem. Soc. 72, 1242-1248.

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(NY-4830)

Spectroscopic Investigation of the Carbon Disulfide
Flame. I., by V. Kondrat'yev, 29 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XIII, No 9,
1939, pp 1260-1270.

JPM 7500

Sci - Chem

Feb 61

139,972

Electrical Conductivity and Specific Gravity
of the System of Fused Salts $\text{Na}_4\text{P}_2\text{O}_7$ - NaCl , by
S. I. Sklyarenko, I. E. Krauze, 22 pp.

RUSSIAN, no per, Zhur Fiz Khim, Vol XIII,
No 9, 1939, pp 1315-1321.

OTS-64-14147

Sci Tr Center
RT-2182

Scientific - Chemistry
CTS 70/Jul 55

25218

Solubility of Solid Acetylene and Carbon
Dioxide in Liquid Oxygen, Nitrogen and Mixtures
of Oxygen-Nitrogen, by I. P. Iskhin, P. Z.
Burbo, 4 pp.
per,
RUSSIAN, Zhur Fiz Khim, Vol XIII, 1939,
pp 1337-1339.

Sci Mus Lib 55/2563

Sci - Chemistry

30,112

The Diffusion Theory of Photographic Develop-
ment, by D. A. Frank-Kamenetskii.
RUSSIAN, per, Zh. Fiz. Khim., Vol 13, No 10,
1939, pp 1403-1410.
NLL 5828.4F (11853)

Sci - Photo
Met & Equip
Sept. 67

\$40,376

Cathode Polarization in the Deposition of
Magnesium From Fused Carnallite, by B. Markov,
I. Shcherbakov, V. Kalitova, 27 pp.

RUSSIAN, no per, Zhur ~~Fix. Khim.~~, Vol XIII,
No 10, 1939, pp 1472-1482.

OTS TT-64-14148
Sci Tr Center
RT-2183

Scientific - Chemistry
CIS 70/Jul 55

25-0706

<p>Volkenstein, M. V. and Shorygin, P. P. ANALYSIS OF GASOLINE BY THE RAMAN EFFECT. IL [1963] [16]p. 12 refs. Order from OTS or SLA \$1.60</p> <p>Trans. of [Zhurnal Fizicheskoi Khimii] (USSR) 1939, v. 13, p. 1512-1522.</p> <p>DESCRIPTORS: *Gasoline, Chemical analysis, *Raman spectroscopy.</p> <p>(Materials--Fuels, TT, v. 10, no. 7)</p>	<p>63-16025</p> <p>I. Volkenstein, M. V. II. Shorygin, P. P.</p> <p>63-16025</p>	
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Current Yield of Magnesium as Function of
Magnesium Chloride Content of Melt in Electrolysis
of Molten Carnallite, by B. Markov, V. Kalitova,
8 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XIII, No 11,
1939, pp 1559-1562.

OTS 77-64-14146

Sci Tr Center RT-2184

SLA R - 2736

Scientific - Chemistry Apr 55 OTS

22, 810

Berestneva, Z. Ya., and Kargin, V. A.
ADSORPTION OF ELECTROLYTES ON HIGHLY
PURIFIED ALUMINA AND FERRIC OXIDE GELS.
[1961] 7p. 5 refs.
Order from OTS or SLA \$1.10

61-18056

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1939,
v. 13, p. 1625-1634.

DESCRIPTORS: *Electrolytes, Adsorption, Determina-
tion, *Gels, Iron compounds, Oxides, Aluminum
compounds.

(Unannounced)

61-18056
I : Berestneva, Z. Ya.
II . Kargin, V. A.

184041

Office of Technical Services

The Relationship Between the Surface Energy of
Liquids and the Accommodation Coefficients, by
M. Baranov, 15 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XIII, No 11, 1939,
pp 1634-1641. 9687265

NLL 5828.4F

DEC RSIC-52

Sci - Nuclear Sci & Technology OTS TT-63-24114
Oct 63

NLL R-4 : 3313.4 (1943) (4923) (Rus)

Fastovskii, V. G. and Gurvich, I. G.
HET ONDERZOEK VAN HET EVENWICHT VLOEISTOF - DAMP VAN HET BINNAIRE SYSTEEM
ZUURSTOF - KRYPTON (The Equilibrium Liquid - vapour in the Binary System Oxygen - Krypton) tr. by
A. Bosch-Sukacz and G. J. M. Fritschy. 17p. 16 refs.
MTWL: 130. (text in Dutch).
Order from OTS or ETC \$1.85

61-17735

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1939,
v. 13, p. 1680-1689.

DESCRIPTORS: *Krypton, *Oxygen, Phase studies,
Liquids, Vapours.

61-17735

I. Fastovskii, V. G.
II. Gurvich, I. G.
III. MTWL-130
IV. Stichting Moeillijk
Toegankelijke Wetenschappelijke Literatuur

Office of Technical Services

<p>Abdulaev, Ya. A. PHASE RELATIONS IN MIXTURES OF CARBON DIOXIDE WITH HYDROGEN, NITROGEN AND CARBON MONOXIDE, tr. by Bertha P. Klenova, 14 Dec 61, 3p. 3 refs., TVA-3967.</p> <p>Trans. of [Zhurnal Fizicheskoi Khimii] (USSR) 1939, v. 13, p. 986-988.</p> <p>DESCRIPTORS: Carbon dioxide, Hydrogen, Nitrogen, Carbon compounds, Monoxides, Mixtures, Phase studies.</p>	<p>62-24460</p> <p>I. Abdulaev, Ya. A. II. TVA-3967 III. Tennessee Valley Authority, Wilson Dam, Ala.</p>	
(Unannounced)		Office of Technical Services

Abdulaev, Ya. A.
DE PHASEN-VERHOUDINGEN IN MENGSELS VAN
KOOLZUUR MET WATERSTOF, STIKSTOF EN KOOL-
STOFOXYDE (Phase Relations in Mixtures of Carbon
Dioxide with Hydrogen, Nitrogen and Carbon Monoxide)
tr. by A. Bosch-Sukacz and C. J. M. Fritschy. 6p.
3 refs. MTWL: 132, (text in Dutch).
Order from OTS or ETC \$1.55

61-17716

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1939,
v. 13, p. 986-988.

DESCRIPTORS: *Phase studies, *Carbon dioxide,
*Hydrogen, *Nitrogen, Carbon compounds, Monoxides

61-17716

I. Abdulaev, Ya. A.
II. MTWL-132
III. Stichting Moeillijk
Toegankelijke Wetenschappelijke Literatuur

On the Overvoltage of Hydrogen in the Fused
Electrolyte, by S. Karpechev, S. Rempel, E. Yordan,
14 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XIII, No 8, 1939,
10.7.1991.

26.708

Sci Trans Center
DM-0102

Overvoltage on Mercury in Presence of Surface-Active Electrolytes, by Z. Iofa, B. Kabanov, E. Kuchinskiy, F. Chistyakov, 19 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XIII, 1939, pp
XXXX 1105-1116.

AEC Tr 1859

Scientific - Physics
CTS/DEX

14,386

Electroosmotic Investigation of the Surface Layers
in Glass, by V. S. Molchanov, 14 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXI, No 8, 1939,
pp 1124-1130.

Sci Tr Center RT-1208

Scientific - Chemistry

Jul 54 CTS

16,050

Influence of the Addition of Hypochlorous Acid on the Double Bond. VI. I. R-Dichlers.
Oxidative Polymerization at High Chloride Ion
Concentrations, by A. A. Shilov, H. P.
Hartley et al. (1961)

Selected, per, Zhur. Fiz. Khim., Vol. XXXI,
No. 1, pp 1432-1440.

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(NY-4830)

Spectroscopic Investigation of the Carbon Disulfide
Flame. I., by V. Kondrat'yev, 29 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XIII, No 9,
1939, pp 1260-1270.

JPRS 7500

Sci - Chem

Feb 61

139,972

Electrical Conductivity and Specific Gravity
of the System of Fused Salts $\text{Na}_4\text{P}_2\text{O}_7$ - NaCl , by
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RUSSIAN, no per, Zhur Fiz Khim, Vol XIII,
No 9, 1939, pp 1315-1321.

STS-64-101-07
Sci Tr Center
RT-2182

Scientific - Chemistry
CRS 70/Jul 55

25, 218

Solubility of Solid Acetylene and Carbon
Dioxide in Liquid Oxygen, Nitrogen and Mixtures
of Oxygen-Nitrogen, by I. P. Iskhin, P. Z.
Burbo, 4 pp.

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RUSSIAN, Zhur Fiz Khim, Vol XIII, 1939,
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Sci - Chemistry

30,112

The Diffusion Theory of Photographic Development, by D. A. Frank-Kamenetskii.
RUSSIAN, per, Zh. Fiz. Khim., Vol 13, No 10,
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Sci - Rmks
Met & Equip
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340,376

Cathode Polarization in the Deposition of
Magnesium From Fused Carnallite, by B. Markov,
I. Shcherbakov, V. Kalitova, 27 pp.

RUSSIAN, no per, Zhur Fiz Khim, Vol XIII,
No 10, 1939, pp 1472-1482.

OTS TT-64-14148
Sci Tr Center
RT-2183

Scientific - Chemistry
CTS 70/Jul 55

25/026

Volkenstein, M. V. and Shorygin, P. P.
ANALYSIS OF GASOLINE BY THE RAMAN EFFECT,
II. [1963] [18p. 12 refs.
Order from OTS or SLA \$1.60

63-16025

Trans. of [Zhurnal Fizicheskoi Khimii] (USSR) 1939,
v. 13, p. 1512-1522.

DESCRIPTORS: *Gasoline, Chemical analysis, *Raman
spectroscopy.

63-16025
I. Volkenstein, M. V.
II. Shorygin, P. P.

(Materials--Fuels, TT, v. 10, no. 7)

Office of Technical Services

Current Yield of Magnesium as Function of
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OTI TT-64-14146

Sci Tr Center RT-2184

Scientific - Chemistry SCA R - 2936
Apr 55 OTS

22, 810

Berestneva, Z. Ya., and Kargin, V. A.
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I : Berestneva, Z. Ya.
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Office of Technical Services

The Relationship Between the Surface Energy of
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RUSSIAN, per, Zhur Fiz Khim, Vol XIII, No 11, 1939,
pp 1634-1641. 9687255

NLL 5828.4F

DDC RSIC-52

OTS
Sci - Nuclear Sci & Technology
Oct 63

NLL Ref: 8313.4 1963 (4922) (R-1)

Fastovskii, V. G. and Gurvich, I. G.
HET ONDERZOEK VAN HET EVENWICHT VLOEI-
STOF - DAMP VAN HET BINAIRE SYSTEEM
ZUURSTOF - KRYPTON (The Equilibrium Liquid -
vapour in the Binary System Oxygen - Krypton) tr. by
A. Bosch-Sukacz and G. J. M. Fritschy. 17p. 16 refs.
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v. 13, p. 1680-1689.

61-17735
DESCRIPTORS: *Krypton, *Oxygen, Phase studies,
Liquids, Vapours.

61-17735

I. Fastovskii, V. G.
II. Gurvich, I. G.
III. MTWL-130
IV. Stichting Moeilijk
Toegankelijke Wetenschap-
lijke Literatuur

Office of Technical Services

Ammonia Content of Hydrogen and Nitrogen Under Pressure in Equilibrium With Liquid Ammonia, by I. R. Krichenckiy, N. E. Khazanova. UNCLASSIFIED

RUSSIAN, par, Zhur Fiz Khim, Vol XIII, 1939,
pp 1690-1693.

Sci Mus Lib 58/0333

(NY-4830)

Propagation of Cold Flame in Fuel Mixtures
Containing 0.03% Carbon Disulfide, by V. G. Voronkov,
N. N. Semenov, 7⁴ pp.

RUSSIAN, per, Zhar Fiz Khim, Vol XIII, No 12,
1939, pp 1695-1727.

JPRS 7502

Sci - Chem

Feb 61

130, 373

The Determination of Vapor Pressure of $\text{AlCl}_3\text{-NaCl}$ Melt at High Temperatures, by I. I. Maryashkin, 3 pp.

RUSSIAN, no per, Zhur Fiz Khim, Vol XIII, 1939,
pp 690-692.

S.L.A. Tr 1267

Sci - Physcis
Jan 57 CTS

42,585

Thermal Analysis of Systems $\text{AlCl}_3\text{-NaCl}$ and
 $\text{AlCl}_3\text{-KCl}$, by U. I. Shvartsman, 5 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XIV, 1940,
pp 253-256.

AEC Tr-4347

Sci - Phys
May 61

150,341

Kinetics of Sorption on Granular Substances, by Ya.
Zabotinskiy, 23 pp UNCLASSIFIED

X/V# /
RUSSIAN, per, Zhur Fiz Khim, Vol 32, No 2,
pp 32-37, 1970

Sci Tr Center
RT 1006

Scientific - Chemistry

15,350

Formation of Nitrogen Oxides in Ultra-High
Frequency Torch Discharge, by P. A. Serebryakov.

RUSSIAN, per, Zhur Fiz Khim, Vol XIV, No 2,
1940, pp 175-179.

CCT-1502B

CCT-1502 TM

Sci - Chem
Dec 59

103,996

Solomin, N. V.
VISCOSEITY OF SILICA. [1962] 9p. (tables refs. omitted) 27 refs.
Order from OTS or SLA \$1.10

62-18318

Trans. of [Zhurnal Fizicheskoi Khimii] (USSR) 1940,
v. 14 [no. 2] p. 235-243.

DESCRIPTORS: *Glass, Quartz, *Silicon compounds,
Viscosity, Test equipment, *Viscosimeters, Dioxides,

62-18318

I. Solomin, N. V.

(Materials--Ceramics, TT, v. 9, no. 5)

Office of Technical Services

To the Question of the Electrolysis of Fused Carnallite.
Dependence of the Current Output by Magnesium Chloride
Contact in the Melt, by B. Markov, I. Scherbakov,
V. Kalitova, 8 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XIV, No 2, pp 220-
224, 1940.

Morris D. Friedman M-113

S. L. A. - R. D. Bureau

U.S. Govt. 1958

Sci - Chem
Aug 58

70,610

(NY-4844)

Distribution of the CS Radical in the Low-Temperature
Flame Zone of Carbon Bisulfide, by V. Kondrat'ev,
7 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XIV, No 3, 1940,
pp 287-290.

JPRS 7533

Sci - Chem

140, 678

Feb 61

The Influence of Water Vapor on the Rate of
Reduction of Magnetite and Hematite by Carbon
Monoxide, by Ye. P. Tatiyevskaya, 10 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XIV, 1940,
pp 349-356.

SLA 59-15408

Sci
Dec 59
Vol 2, No 5

103 792

The Thermodynamic Functions of K Acetone,
by I. Golov, A. Pashin, et al.
ROSSLIN, Ser., Zhur Fiz Khim, Vol XIV, No 3, 1940,
pp 374-379.

AEC-Dounreay Tr No 136
Available on loan only

Sci
Dec 64

Solubility of Carbon Dioxide From its Mixtures
With Hydrogen and Nitrogen in Water Under Pressure,
by S. D. Zayalishvili, 9 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XIV, 1940, pp
413-417.

SLA/R-2446

1
Scg
Apr 59

84,911

Zhur Fiz Khim Vol 14, page 418-21 (1940)

Solubility of Ethylene and Propylene in Liquid N₂
and Liquid O₂

by N. M. Tsin.

OTS 61-11736

AEC Trans (avail. Brookhaven)

Zh Fiz Khim Vol 14, page 422-6 (1940)

Solubility of Acetylene and CO₂ in Liquid N₂ and
Liquid O₂
by M. F. Fedorova

AEC Trans (avail. Brookhaven)

M. F. Fedorova
AEC Trans 3663
Acetylene and CO₂

Solubility of Gases in Liquids at Low Temperatures
and High Pressures. III. Solubility of Hydrogen in
Liquid Methane, by V. G. Pastovskiy, N. G.
Gonikberg, 5 pp.

RUSSIAN, mp per, Zhur Fiz Khim, Vol XIV, No 3,
1940, pp 427, 428.

Sci Tr Center
RT - 2668

Scientific - Chemistry
Dec 55 CTS/DEX

28, 989

Vibration Spectra of Hydrocarbon Molecules, I.
Methods for the Study of Valence Vibrations, by
M. A. El'yashevich, 20 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XIV, No 4, 1940,
pp 461-473.

Sci Trans Center RT-405

Scientific - Physics
CTS/DEX

10,894

Vibration Spectra of Hydrocarbon Molecules. II.
Frequencies of Valence Vibrations of the Carbon
Chain of Molecules of the Paraffin Series, by
B. I. Stepanov, 19 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XIV, No 4, 1940,
pp 474-487.

10,937

Sci Trans Center RT-404

Scientific - Physics
CTS/DEX

Vibration Spectra of Hydrocarbon Molecules, III. An Approximate Method of Distinguishing Vibrations of Groups CH, CH₂, and CH₃, by M. A. El'yashevich, 8 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XIV, No 4, 1940,
pp 488-493.

Sci Trans Center RT-409

Scientific - Physics
CTS/DECX

10,895

Some Explosive Properties of Manganese
Trichloride, by A. Ya. Apin, 22 pp.
(NY-4840)

RUSSIAN, per, Zhur Fiz Khim, Vol XIV, No 4,
1940, pp 494-504.

JPRS 7159
CIC TT-60-20779
Sci - Chem

Nov 60 133, 611

[REDACTED]

On the basis of the information, the two following conclusions were made by the USSR Foreign Intelligence Directorate:
1) The American aircraft was shot down by friendly fire.
2) The American aircraft was shot down by friendly fire.

Source: *USSR, State Dept. Report on American Aircraft Downed in Korea*, Vol. I, pp. 302-322.

SLA/R-2477

Det
REF ID: A

845, G/L

Thermodynamic Constants of ~~the~~ Silicon Tetrafluoride.
The Hydrolysis & Equilibrium of Silicon Tetra-
fluoride, by I. G. Ryss, 15 p.

RUSSIAN, per, Zhur Fiz Khim, Vol XIV, 1940, pp
571-581.

SLA R-2939

Sci

Jul 59

92, 430

Regular Solutions of Gases in Liquids. I, Regular
Solutions of Hydrogen, by M. G. Gonikberg, 13 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XIV, 1940, pp 582-
588.

SLA 59-10285

Sci - Chem
Sep 59
Vol 2, No 1

97,283

Oxidation of Adsorbed Molecules of Carbon
Monoxide by Atoms of Oxygen, by M. M.
Pavlyuchenko,

RUSSIAN, no per, Zhur Fiz Khim, Vol XIV,
No 5/6, 1940, pp 605-614.

Nat Res Lib TT.561
Ottawa, Canada

Sci - Chemistry

32,057

Theory o' Formation of Catalytically Active Ensembles
on Surfaces, by L. L. Klyachko-Gurvich, N. I.
Kobozev, 17 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XIV, 1940, pp
650-669.

SLA/R-2448

Sci
Apr 59

84,873

Conditions Under Which the Rodenstein Method is
Applicable in Chemical Kinetics, 8 pp. by D. A. Frank-
Kamenetskij

zpr-F12-KH14

RUSSIAN, per, J. Phys. Chem. (USSR), 14, 695-700
(1940)

Avail Armed Services Tech Info
Agency as ATI 83148

1537

Scientific - Physics

Measurement of Small Vapor Pressures. I. Vapor Pressure of Naphthalene, Camphor and Glycerol, by A. A. Zil'berman-Granovskaya,

RUSSIAN, per, Zhur Fiz Khim, Vol XIV, No 5-6, 1940,
pp 759-767.

AT&T RJ-2186

Sci - Chem

May 60

115,450

Measurement of Small Vapor Pressures. II. Vapor Pressure of CIS and Trans Isomers, by A. A. Zil'berman-Granovskaya,

RUSSIAN, per, Zhur Fiz Khim, Vol XIV, No 5-6, 1940,
pp 763-773.

ATS RJ-2187

Sci - Chem

May 60

115,451

Compatibility of Nitrogen-Hydrogen-Ammonia
Mixtures at High Pressures and Temperatures, by
V. S. Kazarinovskiy, G. B. Simonov, G. E. Aristov,
et al.

RUSSIAN, per, Zhur Fiz Khim, Vol XIV, 1940, pp
774-781.

SLA/R-2449
L. J. J. L.
"C. L. M. T."
"C. L. M. T."

(NY-4844)

The Preparation of CS During the Photodissociation of
CS₂ and COS, by V. Kondrat'ev, A. Yakovleva, 11 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XIV, No 7, 1940,
pp 853-858.

JPRS 7530

Sci - Chem

Feb 61

139,354

(NY-4844)

The Preparation of Sulfur Monoxide Photochemically,
by V. Kondrat'ev, A. Yakoleva, 7 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XIV, No 7,
1940, pp 859-862.

JPRS 7531

Sci - Chem

Feb 61

140, 761

Oxidation of Hydrogen by Atomic Oxygen, 19 pp.
by M. M. Pavlinchenko

ZHUR-FIZ-KHIM

RUSSIAN, per, J. Phys. Chem., (USSR), 14, 877-85,
(1940).

Avail Armed Services Tech
Info Agency as ATI 83148

1527

Scientific - Chemistry, Physics

The Effect of Catalytic Admixtures Upon the Fission
of Organic Peroxides, by V. I. Berezovskaya, E. K.
Efimovskaya.

USSIAN, per, Zhur Fiz Khim, Vol XIV, ■■■■, 1940,
p 936-940.

Copy in Files

NRL Tr 151

SLA Tr

CIA 513240

NAD 15137

Specific - Chemistry

15,841